

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/993,180

DATE: 12/05/2001
TIME: 11:53:53

Input Set : A:\es.txt
Output Set: N:\CRF3\11212001\I993180.raw

ENTERED

3 <110> APPLICANT: Bristol-Myers Squibb Company
5 <120> TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN SERPIN SECRETED FROM
LYMPHOID
6 CELLS, LSI-01
8 <130> FILE REFERENCE: D0051.NP
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/993,180
C--> 10 <141> CURRENT FILING DATE: 2001-11-14
10 <150> PRIOR APPLICATION NUMBER: US 60/248,434
11 <151> PRIOR FILING DATE: 2000-11-14
13 <150> PRIOR APPLICATION NUMBER: US 60/257,610
14 <151> PRIOR FILING DATE: 2000-12-21
16 <150> PRIOR APPLICATION NUMBER: US 60/282,745
17 <151> PRIOR FILING DATE: 2001-04-10
19 <160> NUMBER OF SEQ ID NOS: 46
21 <170> SOFTWARE: PatentIn version 3.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 1766
25 <212> TYPE: DNA
26 <213> ORGANISM: Homo sapiens
28 <220> FEATURE:
29 <221> NAME/KEY: CDS
30 <222> LOCATION: (68)..(1372)
32 <400> SEQUENCE: 1
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35 accaacc atg caa gga cag ggc agg aga aga gga acc tgc aaa gac ata 109
36 Met Gln Gly Gln Gly Arg Arg Arg Gly Thr Cys Lys Asp Ile
37 1 5 10
39 ttt tgt tcc aaa atg gca tct tac ctt tat gga gta ctc ttt gct gtt 157
40 Phe Cys Ser Lys Met Ala Ser Tyr Leu Tyr Gly Val Leu Phe Ala Val
41 15 20 25 30
43 ggc ctc tgt gct cca atc tac tgt gtg tcc ccc gcc aat gcc ccc agt 205
44 Gly Leu Cys Ala Pro Ile Tyr Cys Val Ser Pro Ala Asn Ala Pro Ser
45 35 40 45
47 gca tac ccc cgc cct tcc aca aag agc acc cct gcc tca cag gtg 253
48 Ala Tyr Pro Arg Pro Ser Ser Thr Lys Ser Thr Pro Ala Ser Gln Val
49 50 55 60
51 tat tcc ctc aac acc gac ttt gcc ttc cgc cta tac cgc agg ctg gtt 301
52 Tyr Ser Leu Asn Thr Asp Phe Ala Phe Arg Leu Tyr Arg Arg Leu Val
53 65 70 75
55 ttg gag acc ccg agt cag aac atc ttc ttc tcc cct gtg agt gtc tcc 349
56 Leu Glu Thr Pro Ser Gln Asn Ile Phe Phe Ser Pro Val Ser Val Ser
57 80 85 90
59 act tcc ctg gcc atg ctc tcc ctt ggg gcc cac tca gtc acc aag acc 397
60 Thr Ser Leu Ala Met Leu Ser Leu Gly Ala His Ser Val Thr Lys Thr
61 95 100 105 110
63 cag att ctc cag ggc ctg ggc ttc aac ctc aca cac aca cca gag tct 445
64 Gln Ile Leu Gln Gly Leu Gly Phe Asn Leu Thr His Thr Pro Glu Ser
65 115 120 125

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67	gcc atc cac cag ggc ttc cag cac ctg gtt cac tca ctg act gtt ccc	493
68	Ala Ile His Gln Gly Phe Gln His Leu Val His Ser Leu Thr Val Pro	
69	130 135 140	
71	agc aaa gac ctg acc ttg aag atg gga agt gcc ctc ttc gtc aag aag	541
72	Ser Lys Asp Leu Thr Leu Lys Met Gly Ser Ala Leu Phe Val Lys Lys	
73	145 150 155	
75	gag ctg cag ctg cag gca aat ttc ttg ggc aat gtc aag agg ctg tat	589
76	Glu Leu Gln Leu Gln Ala Asn Phe Leu Gly Asn Val Lys Arg Leu Tyr	
77	160 165 170	
79	gaa gca gaa gtc ttt tct aca gat ttc tcc aac ccc tcc att gcc cag	637
80	Glu Ala Glu Val Phe Ser Thr Asp Phe Ser Asn Pro Ser Ile Ala Gln	
81	175 180 185 190	
83	gcg agg atc aac aac cat gtg aaa aag aag acc caa ggg aag gtt gta	685
84	Ala Arg Ile Asn Ser His Val Lys Lys Lys Thr Gln Gly Lys Val Val	
85	195 200 205	
87	gac ata atc caa ggc ctt gac ctt ctg acg gcc atg gtt ctg gtg aat	733
88	Asp Ile Ile Gln Gly Leu Asp Leu Leu Thr Ala Met Val Leu Val Asn	
89	210 215 220	
91	cac att ttc ttt aaa gcc aag tgg gag aag ccc ttt cac ctt gaa tat	781
92	His Ile Phe Phe Lys Ala Lys Trp Glu Lys Pro Phe His Leu Glu Tyr	
93	225 230 235	
95	aca aga aag aac ttc cca ttc ctg gtg ggc gag cag gtc act gtg caa	829
96	Thr Arg Lys Asn Phe Pro Phe Leu Val Gly Glu Gln Val Thr Val Gln	
97	240 245 250	
99	gtc ccc atg atg cac cag aaa gag cag ttc gct ttt ggg gtg gat aca	877
100	Val Pro Met Met His Gln Lys Glu Gln Phe Ala Phe Gly Val Asp Thr	
101	255 260 265 270	
103	gag ctg aac tgc ttt gtg ctg cag atg gat tac aag gga gat gcc gtg	925
104	Glu Leu Asn Cys Phe Val Leu Gln Met Asp Tyr Lys Gly Asp Ala Val	
105	275 280 285	
107	gcc ttc ttt gtc ctc cct agc aag ggc aag atg agg caa ctg gaa cag	973
108	Ala Phe Phe Val Leu Pro Ser Lys Gly Lys Met Arg Gln Leu Glu Gln	
109	290 295 300	
111	gcc ttg tca gcc aga aca ctg ata aag tgg agc cac tca ctc cag aaa	1021
112	Ala Leu Ser Ala Arg Thr Leu Ile Lys Trp Ser His Ser Leu Gln Lys	
113	305 310 315	
115	agg tgg ata gag gtg ttc atc ccc aga ttt tcc att tct gcc tcc tac	1069
116	Arg Trp Ile Glu Val Phe Ile Pro Arg Phe Ser Ile Ser Ala Ser Tyr	
117	320 325 330	
119	aat ctg gaa acc atc ctc ccg aag atg ggc atc caa aat gcc ttt gac	1117
120	Asn Leu Glu Thr Ile Leu Pro Lys Met Gly Ile Gln Asn Ala Phe Asp	
121	335 340 345 350	
123	aaa aat gct gat ttt tct gga att gca aag aga gac tcc ctg cag gtt	1165
124	Lys Asn Ala Asp Phe Ser Gly Ile Ala Lys Arg Asp Ser Leu Gln Val	
125	355 360 365	
127	tct aaa gca acc cac aag gct gtg ctg gat gtc agt gaa gag ggc act	1213
128	Ser Lys Ala Thr His Lys Ala Val Leu Asp Val Ser Glu Glu Gly Thr	
129	370 375 380	
131	gag gcc aca gca gct acc acc acc aag ttc ata gtc cga tcg aag gat	1261

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132	Glu	Ala	Thr	Ala	Ala	Thr	Thr	Lys	Phe	Ile	Val	Arg	Ser	Lys	Asp		
133	385					390					395						
135	ggt	ccc	tct	tac	ttc	act	gtc	tcc	ttc	aat	agg	acc	ttc	ctg	atg	atg	1309
136	Gly	Pro	Ser	Tyr	Phe	Thr	Val	Ser	Phe	Asn	Arg	Thr	Phe	Leu	Met	Met	
137	400					405					410						
139	att	aca	aat	aaa	gcc	aca	gac	ggt	att	ctc	ttt	cta	ggg	aaa	gtg	gaa	1357
140	Ile	Thr	Asn	Lys	Ala	Thr	Asp	Gly	Ile	Leu	Phe	Leu	Gly	Lys	Val	Glu	
141	415					420					425				430		
143	aat	ccc	act	aaa	tcc	taggtggaa	atggcctgtt	aactgtatggc	acattgctaa							1412	
144	Asn	Pro	Thr	Lys	Ser												
145	435																
147	tgcacaagaa	ataacaaacc	acatccctct	ttctgttctg	agggtgcatt	tgaccccagt										1472	
149	ggagctggat	tcgctggcag	ggatgccact	tccaaggctc	aatcacaaaa	ccatcaacag										1532	
151	gaccccccagt	cacaagccaa	cacccattaa	ccccagtcag	tgcccttttc	cacaaattct										1592	
153	cccaggtAAC	tagttcatg	ggatgttgct	gggttaccat	atttccatTC	cttggggctc										1652	
155	ccaggaatgg	aaatacGCCA	acccaggtta	ggcacctcta	ttgcagaatt	acaataacac										1712	
157	attcaataaa	actaaaatat	gaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa										1766	
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168	1				5				10				15				
171	Ser	Lys	Met	Ala	Ser	Tyr	Leu	Tyr	Gly	Val	Leu	Phe	Ala	Val	Gly	Leu	
172					20				25				30				
175	Cys	Ala	Pro	Ile	Tyr	Cys	Val	Ser	Pro	Ala	Asn	Ala	Pro	Ser	Ala	Tyr	
176					35				40				45				
179	Pro	Arg	Pro	Ser	Ser	Thr	Lys	Ser	Thr	Pro	Ala	Ser	Gln	Val	Tyr	Ser	
180					50				55				60				
183	Leu	Asn	Thr	Asp	Phe	Ala	Phe	Arg	Leu	Tyr	Arg	Arg	Leu	Val	Leu	Glu	
184		65			70				75				80				
187	Thr	Pro	Ser	Gln	Asn	Ile	Phe	Phe	Ser	Pro	Val	Ser	Val	Ser	Thr	Ser	
188					85				90				95				
191	Leu	Ala	Met	Leu	Ser	Leu	Gly	Ala	His	Ser	Val	Thr	Lys	Thr	Gln	Ile	
192					100				105				110				
195	Leu	Gln	Gly	Leu	Gly	Phe	Asn	Leu	Thr	His	Thr	Pro	Glu	Ser	Ala	Ile	
196					115				120				125				
199	His	Gln	Gly	Phe	Gln	His	Leu	Val	His	Ser	Leu	Thr	Val	Pro	Ser	Lys	
200		130				135				140							
203	Asp	Leu	Thr	Leu	Lys	Met	Gly	Ser	Ala	Leu	Phe	Val	Lys	Lys	Glu	Leu	
204		145				150				155				160			
207	Gln	Leu	Gln	Ala	Asn	Phe	Leu	Gly	Asn	Val	Lys	Arg	Leu	Tyr	Glu	Ala	
208					165				170				175				
211	Glu	Val	Phe	Ser	Thr	Asp	Phe	Ser	Asn	Pro	Ser	Ile	Ala	Gln	Ala	Arg	
212			180				185				190						
215	Ile	Asn	Ser	His	Val	Lys	Lys	Lys	Thr	Gln	Gly	Lys	Val	Val	Asp	Ile	
216			195				200				205						
219	Ile	Gln	Gly	Leu	Asp	Leu	Leu	Thr	Ala	Met	Val	Leu	Asn	His	Ile		

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220	210	215	220													
223	Phe	Phe	Lys	Ala	Lys	Trp	Glu	Lys	Pro	Phe	His	Leu	Glu	Tyr	Thr	Arg
224	225					230				235						240
227	Lys	Asn	Phe	Pro	Phe	Leu	Val	Gly	Glu	Gln	Val	Thr	Val	Gln	Val	Pro
228						245				250						255
231	Met	Met	His	Gln	Lys	Glu	Gln	Phe	Ala	Phe	Gly	Val	Asp	Thr	Glu	Leu
232						260				265						270
235	Asn	Cys	Phe	Val	Leu	Gln	Met	Asp	Tyr	Lys	Gly	Asp	Ala	Val	Ala	Phe
236						275				280						285
239	Phe	Val	Leu	Pro	Ser	Lys	Gly	Lys	Met	Arg	Gln	Leu	Glu	Gln	Ala	Leu
240						290				295						300
243	Ser	Ala	Arg	Thr	Leu	Ile	Lys	Trp	Ser	His	Ser	Leu	Gln	Lys	Arg	Trp
244	305					310				315						320
247	Ile	Glu	Val	Phe	Ile	Pro	Arg	Phe	Ser	Ile	Ser	Ala	Ser	Tyr	Asn	Leu
248						325				330						335
251	Glu	Thr	Ile	Leu	Pro	Lys	Met	Gly	Ile	Gln	Asn	Ala	Phe	Asp	Lys	Asn
252						340				345						350
255	Ala	Asp	Phe	Ser	Gly	Ile	Ala	Lys	Arg	Asp	Ser	Leu	Gln	Val	Ser	Lys
256						355				360						365
259	Ala	Thr	His	Lys	Ala	Val	Leu	Asp	Val	Ser	Glu	Gly	Thr	Glu	Ala	
260						370				375						380
263	Thr	Ala	Ala	Thr	Thr	Thr	Lys	Phe	Ile	Val	Arg	Ser	Lys	Asp	Gly	Pro
264	385					390				395						400
267	Ser	Tyr	Phe	Thr	Val	Ser	Phe	Asn	Arg	Thr	Phe	Leu	Met	Met	Ile	Thr
268						405				410						415
271	Asn	Lys	Ala	Thr	Asp	Gly	Ile	Leu	Phe	Leu	Gly	Lys	Val	Glu	Asn	Pro
272						420				425						430
275	Thr	Lys	Ser													
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282	<213>	ORGANISM:	Homo sapiens													
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287	1				5				10							15
289	Phe	Cys	Pro	Ala	Val	Leu	Cys	His	Pro	Asn	Ser	Pro	Leu	Asp	Glu	Glu
290					20				25							30
292	Asn	Leu	Thr	Gln	Glu	Asn	Gln	Asp	Arg	Gly	Thr	His	Val	Asp	Leu	Gly
293					35				40							45
295	Leu	Ala	Ser	Ala	Asn	Val	Asp	Phe	Ala	Phe	Ser	Leu	Tyr	Lys	Gln	Leu
296					50				55							60
298	Val	Leu	Lys	Ala	Pro	Asp	Lys	Asn	Val	Ile	Phe	Ser	Pro	Leu	Ser	Ile
299					65				70							80
301	Ser	Thr	Ala	Leu	Ala	Phe	Leu	Ser	Leu	Gly	Ala	His	Asn	Thr	Thr	Leu
302						85				90						95
304	Thr	Glu	Ile	Leu	Lys	Gly	Leu	Lys	Phe	Asn	Leu	Thr	Glu	Thr	Ser	Glu
305						100				105						110
307	Ala	Glu	Ile	His	Gln	Ser	Phe	Gln	His	Leu	Leu	Arg	Thr	Leu	Asn	Gln

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308 115 120 125
 310 Ser Ser Asp Glu Leu Gln Leu Ser Met Gly Asn Ala Met Phe Val Lys
 311 130 135 140
 313 Glu Gln Leu Ser Leu Leu Asp Arg Phe Thr Glu Asp Ala Lys Arg Leu
 314 145 150 155 160
 316 Tyr Gly Ser Glu Ala Phe Ala Thr Asp Phe Gln Asp Ser Ala Ala Ala
 317 165 170 175
 319 Lys Lys Leu Ile Asn Asp Tyr Val Lys Asn Gly Thr Arg Gly Lys Ile
 320 180 185 190
 322 Thr Asp Leu Ile Lys Asp Leu Asp Ser Gln Thr Met Met Val Leu Val
 323 195 200 205
 325 Asn Tyr Ile Phe Phe Lys Ala Lys Trp Glu Met Pro Phe Asp Pro Gln
 326 210 215 220
 328 Asp Thr His Gln Ser Arg Phe Tyr Leu Ser Lys Lys Lys Trp Val Met
 329 225 230 235 240
 331 Val Pro Met Met Ser Leu His His Leu Thr Ile Pro Tyr Phe Arg Asp
 332 245 250 255
 334 Glu Glu Leu Ser Cys Thr Val Val Glu Leu Lys Tyr Thr Gly Asn Ala
 335 260 265 270
 337 Ser Ala Leu Phe Ile Leu Pro Asp Gln Asp Lys Met Glu Glu Val Glu
 338 275 280 285
 340 Ala Met Leu Leu Pro Glu Thr Leu Lys Arg Trp Arg Asp Ser Leu Glu
 341 290 295 300
 343 Phe Arg Glu Ile Gly Glu Leu Tyr Leu Pro Lys Phe Ser Ile Ser Arg
 344 305 310 315 320
 346 Asp Tyr Asn Leu Asn Asp Ile Leu Leu Gln Leu Gly Ile Glu Glu Ala
 347 325 330 335
 349 Phe Thr Ser Lys Ala Asp Leu Ser Gly Ile Thr Gly Ala Arg Asn Leu
 350 340 345 350
 352 Ala Val Ser Gln Val Val His Lys Ala Val Leu Asp Val Phe Glu Glu
 353 355 360 365
 355 Gly Thr Glu Ala Ser Ala Ala Thr Ala Val Lys Ile Thr Leu Leu Ser
 356 370 375 380
 358 Ala Leu Val Glu Thr Arg Thr Ile Val Arg Phe Asn Arg Pro Phe Leu
 359 385 390 395 400
 361 Met Ile Ile Val Pro Thr Asp Thr Gln Asn Ile Phe Phe Met Ser Lys
 362 405 410 415
 364 Val Thr Asn Pro Lys Gln Ala
 365 420
 367 <210> SEQ ID NO: 4
 368 <211> LENGTH: 427
 369 <212> TYPE: PRT
 370 <213> ORGANISM: Homo sapiens
 372 <400> SEQUENCE: 4
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 377 Leu Ser His Gly Gln Leu His Val Glu His Asp Gly Glu Ser Cys Ser
 378 20 25 30
 380 Asn Ser Ser His Gln Gln Ile Leu Glu Thr Gly Glu Gly Ser Pro Ser

VERIFICATION SUMMARY
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L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date